



DFM
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1532 BIDDLE AVENUE, WYANDOTTE, MICHIGAN 48192 • (313) 281-0930 • TELEX No. (0)23-4066-DIVRSY WY WYTE

December 8, 1981

Douglas Aircraft Company
Mr. W. T. Jordan
Materials Handling & Package Engineering
Dept. C1-725 (52-46)
3855 Lakewood Blvd.
Long Beach, CA 90846

Dear Mr. Jordan:

To comply with your request for information on MF ACID manufactured by Diversey Wyandotte Corporation, be advised that:

1. Proper Shipping Name - Corrosive Solid NOS, Corrosive Material.
2. DOT Hazard Classification - Corrosive Solid
3. Flash Point - Not combustible
4. UN/NA Identification Number UN 1727
5. IMCO Class Code - Class 8
6. IMCO Dangerous Goods Code - Page 8032
7. IATA Regulations - Article Number (Section IV) 101

Attached is a MSDS for MF ACID. The product is not photochemically active.

If you require additional information, please contact me.

Very truly yours,

Donald F. Garvin, Ph.D.
Regulatory Affairs

yb

BASF WYANDOTTE CORPORATION - MATERIAL SAFETY DATA SHEET

SECTION I

CHEMICAL NAME
& SYNONYMSTRADE NAME
& SYNONYMS

MF ACID

JAN 15 1982

CHEMICAL
FAMILY

Mixed fluoride salts

While the information and recommendations
set forth herein are believed to be accurate as

SECTION II - HEALTH HAZARD DATA

HAZARD Contains over 95% ammonium bifluoride

BASF Wyandotte Corporation
MAKES NO WARRANTY WITH RESPECT
TO THE RELIABILITY AND DISCLAIMS ALL LIABILITY
FOR RELIANCE THEREON. The product labels
and product bulletins contain DIRECTIONS FOR
USE and precautionary label text.RELEVANT
SYMPTOMS

Corrosive to skin, eyes, mucous membrane.

EMERGENCY
TREATMENTIn case of contact with skin, immediately wash with water. For eyes, wash
for 15 minutes with water. Seek medical attention.PROPER CONDITIONS
OF USETLV 2.5 mg/m³
EXCURSION
LIMIT

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASH POINTS (1)
(METHOD USED)

Not combustible

FLAMMABLE LIMITS

LEL

UEL

EXTINGUISHING

MEDIA

SPECIAL FIRE FIGHTING
PROCEDURES

Forms corrosive acid solution with water. Avoid contact.

UNUSUAL FIRE AND
EXPLOSION HAZARDS

Emits toxic fumes when heated.

SECTION IV - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE
MATERIAL IS RELEASED OR SPILLEDSweep up. Dissolve in water. Dispose to drain.
Rinse affected area with water.WASTE DISPOSAL
METHODMay require neutralizing with NaOH or lime water to a specified
pH before disposing to a sewer. Contains fluoride. May require
precipitation with lime before disposing to sewer.
Contains no phosphorus.

SECTION V - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (TYPE)

VENTILATION

LOCAL
EXHAUST

Recommended for hot solutions

SPECIAL

MECHANICAL
(GENERAL)

OTHER

PROTECTIVE
GLOVES

Rubber

EYE

PROTECTION

Face Shield

OTHER PROTECTIVE
EQUIPMENT

Rubber boots, aprons, etc., as required to avoid contact with skin or eyes.

SECTION VI - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Isolate from strong alkalis or other
materials affected by acids. Keep dry. Keep away from children.
Avoid storage near glass, or in unventilated areas.

OTHER PRECAUTIONS

Do not ingest.

Etches glass. Emits vapors that etch glass.

10/22/81

Kong Choa from
BASF Wyandotte Corp -
said P.S.N.

Corrosive Solid N.O.S.

(~~ammonium~~ Hydrofluoride)

or
(Ammonium Bifluoride)
 NH_4F